AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A method of performing admission control of traffic flow in ~~an information~~ a network, comprising:

determining a first effective envelope associated with arriving traffic entering said network;

determining a second effective envelope associated with admitted traffic currently in said network;

determining a service curve by measuring departing traffic leaving said network; and

admitting said arriving traffic if the sum of the first and second effective envelopes is less than or equal to said service curve, ~~including assuming new flows have highest priority and testing an admission control condition for each of a plurality of service classes, wherein an arriving aggregate traffic envelope associated with admitted traffic and a service curve are obtained for each service class~~ wherein said first and second effective envelopes and said service curve are non-constant functions of a time interval variable.

2. (currently amended) The method of claim 1 wherein said first and second effective envelopes are global effective envelopes.

3. (currently amended) The method of claim 1 wherein said second effective envelope is a global effective envelope determined as a function of [[the]] measured average and variance of [[the]] an aggregate of admitted traffic.

4. (currently amended) The method of claim 1 wherein said first and second effective envelopes are local effective envelopes.

5. (currently amended) The method of claim 1 wherein said second effective envelope is a local effective envelope determined as a function of [[the]] measured average and variance of [[the]] an aggregate of admitted traffic.

6. (currently amended) The method of claim 1 wherein said first effective envelope is based on [[the]] an aggregate of arriving traffic.

7. (currently amended) The method of claim 6 wherein said aggregate is determined by measuring an aggregate arrival flow at plural time intervals and by calculating [[the]] average and variance of said aggregate arrival flow.

8. (previously presented) The method of claim 1 wherein said second effective envelope is recursively calculated.

9. (original) The method of claim 1 wherein said service curve is determined based on measured packet delay.

10. (currently amended) The method of claim 1 wherein said service curve is determined by developing a list of pairs representing the amount of time required to service one packet of information and the number of backlogged packets of information, and using said list to determine a bounded service envelope.

11-14. (cancelled)

15. (new) The method of claim 1 further comprising testing an admission control condition for each of a plurality of service classes, wherein an aggregate effective envelope associated with arriving traffic and a service curve are determined for each of said plurality of service classes.

16. (new) The method of claim 15 wherein said admitting said arriving traffic includes admitting said arriving traffic when said admission control condition is satisfied for each of said plurality of service classes.